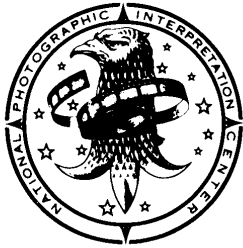


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**P**HOOTOGRAPHIC  
**I**NTERPRETATION  
**R**EPORT

NATIONAL PHOTOGRAPHIC  
INTERPRETATION CENTER

**SINGLE-BAY GARAGE  
FOR PROBABLE MOBILE MISSILE  
DEPLOYMENT IN THE USSR**

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MAY 1977

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**DISSEMINATION CONTROL ABBREVIATIONS**

NOFORN-	Not Releasable to Foreign Nationals
NOCONTRACT-	Not Releasable to Contractors or Contractor/Consultants
PROPIN-	Caution-Proprietary Information Involved
USIBONLY-	USIB Departments Only
ORCON-	Dissemination and Extraction of Information Controlled by Originator
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SINGLE-BAY GARAGE FOR PROBABLE MOBILE MISSILE DEPLOYMENT IN THE USSR

INTRODUCTION

1. Since November 1975, the Soviets have embarked upon a major construction effort probably in anticipation of mobile missile deployment. Construction has been identified at five deployed launch sites—Konkovichi MRBM Launch Site 1, Kozhanovich MRBM Launch Site 2, Drovyanaya ICBM Launch Sites 3 and 4, and Novosibirsk ICBM Launch Site 2. Construction has also been observed at Plesetsk Missile/Space Test Center (PMSTC) and Kapustin Yar Missile/Space Test Center (KYMSTC).
2. Of approximately 77 buildings constructed since November 1975, four distinct types have been identified—an 11-bay garage; a three-bay garage; an open-sided shed; and an unusually configured drive-in, single-bay garage with a roof that can be opened (Figure 1). This report describes only the drive-in, single-bay garage and includes a table and five annotated photographs.

BASIC DESCRIPTION

3. Since April 1976, 19 single-bay garages have been completed—seven at Konkovichi MRBM Launch Site 1, six at Kozhanovich MRBM Launch Site 2, and six at Drovyanaya ICBM Launch Site 4. 26 additional, single-bay garage foundations have been identified—three at Drovyanaya ICBM Launch Site 4, nine at Drovyanaya ICBM Launch Site 3, nine at Novosibirsk ICBM Launch Site 2, two at Konkovichi MRBM Launch Site 1, and three at Kozhanovich MRBM Launch Site 2 (Table 1). No single-bay garages with a sliding-roof capability exist at either Plesetsk or Kapustin Yar test centers.
4. The single-bay garage (Figure 2) has been assembled in a period of seven days after the foundation has been completed. Garage materials arrive at a complex support facility via rail concurrently with construction of the foundations and are shipped to the site via truck.
5. Each garage foundation consists of 14 precast concrete foundation blocks, 15 interconnecting precast foundation braces, and nine concrete paving blocks (Figure 3). Each garage foundation is connected to a main access road by a hardstand, also constructed with concrete paving blocks.
6. The five major prefabricated components of the single-bay garage consist of four cornerpost supports, six wall/roof support stanchions, two stationary roof-end sections, eight sliding-roof sections, and wall sections (Figure 4). The short construction cycle and the prefabricated garage materials suggest that each component is constructed of light corrugated steel. The only facility currently identified as producing and transshipping these prefabricated garage components is Bryansk Guided Missile Support Plant 2.
7. The unique feature of the single-bay garage is its sliding-roof capability. Currently, only eight garages have a confirmed sliding-roof capability. coverage of Drovyanaya ICBM Launch Site 4, the roof on a single-bay garage was in the open position, creating an opening. The mechanism that slides the roof sections open may be housed in each of the stationary roof-end sections (Figure 5).
8. The single-bay garage is capable of housing either the resupply vehicle or the transporter-erector-launcher loaded with an SS-X-16/-20 missile canister. The sliding roof on the single-bay garage could allow routine/nonperiodic checkout or maintenance of an erected SS-X-16/-20 missile canister while it is inside the garage. In an emergency, a missile could probably be fired from the garage, which would thus serve as a launch position.

REQUIREMENT

Project 143470NN

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Table 1. Single-Bay Garage Construction Activity

	Number of Buildings	Construction Status	Roof Vents	Remarks
Konkovichi Launch Site 1	7	Complete	No	It cannot be determined how these 7 garages interconnect by cable trenching to other garages at the launch site; none of the single-bay garages has a confirmed sliding-roof capability; 2 additional foundations for prob single-bay garages completed
Kozhanovich Launch Site 2	6	Complete	No	Only 2 have confirmed sliding-roof capability; 3 additional foundations for prob single-bay garages completed
Drovyanaya Launch Site 4	6	Complete	No	All six single-bay garages have confirmed sliding-roof capability; shed-type personnel shelters constructed along the sides of all 6 single-bay garages; 3 additional foundations for prob single-bay garages completed; negative
Drovyanaya Launch Site 3	9 prob	Ucon	--	3 of 9 single-bay foundations have smaller foundations for attached personnel sheds
Novosibirsk Launch Site 2	9 prob	Ucon	--	2 of 9 single-bay foundations have smaller foundations for attached personnel sheds
Plesetsk ICBM Launch Test Site 4	6	Complete	No	Garages not constructed to have a sliding roof
Plesetsk ICBM Launch Test Site 7	6	Complete	No	Garages not constructed to have a sliding roof

\*Dimensions derived from the best photography available

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## List of Conversion Factors by Classification

### UNITS OF LENGTH

<i>IF YOU HAVE</i>	<i>MULTIPLY BY</i>	<i>TO OBTAIN</i>
MILLIMETERS	0.0394	INCHES
CENTIMETERS	0.3937	INCHES
INCHES	25.4000	MILLIMETERS
INCHES	2.5400	CENTIMETERS
FEET	0.3048	METERS
FEET	0.0003	KILOMETERS
YARDS	0.9144	METERS
METERS	3.2808	FEET
METERS	0.0005	MILES(NAUTICAL)
METERS	1.0936	YARDS
KILOMETERS	3280.8400	FEET
KILOMETERS	0.6214	MILES(STATUTE)
KILOMETERS	0.5400	MILES(NAUTICAL)
MILES(STATUTE)	1.6093	KILOMETERS
MILES(NAUTICAL)	6076.1154	FEET
MILES(NAUTICAL)	1.8520	KILOMETERS
MILES(NAUTICAL)	1852.0000	METERS

### UNITS OF MASS

<i>IF YOU HAVE</i>	<i>MULTIPLY BY</i>	<i>TO OBTAIN</i>
KILOGRAMS	2.2046	POUNDS(AVOIR.)
POUNDS(AVOIR.)	0.4536	KILOGRAMS
SHORT TONS	0.9072	METRIC TONS
METRIC TONS	1.1023	SHORT TONS
METRIC TONS	0.9842	LONG TONS
LONG TONS	1.0160	METRIC TONS

### UNITS OF VOLUME

<i>IF YOU HAVE</i>	<i>MULTIPLY BY</i>	<i>TO OBTAIN</i>
LITERS	0.2642	GALLONS
LITERS	0.0063	BARRELS(POL)
LITERS	0.0010	CUBIC METERS
GALLONS	3.7854	LITERS
GALLONS	0.1337	CUBIC FEET
GALLONS	0.0238	BARRELS(POL)
GALLONS	0.0038	CUBIC METERS
BUSHELS	0.0352	CUBIC METERS
CUBIC FEET	7.4805	GALLONS
CUBIC FEET	0.1781	BARRELS(POL)
CUBIC FEET	0.0283	CUBIC METERS
CUBIC YARDS	0.7646	CUBIC METERS
BARRELS(POL)	158.9873	LITERS
BARRELS(POL)	42.0000	GALLONS
BARRELS(POL)	5.6146	CUBIC FEET
BARRELS(POL)	0.1590	CUBIC METERS
CUBIC METERS	1000.0000	LITERS
CUBIC METERS	264.1721	GALLONS
CUBIC METERS	35.3147	CUBIC FEET
CUBIC METERS	28.3776	BUSHELS
CUBIC METERS	6.2898	BARRELS(POL)
CUBIC METERS	1.3080	CUBIC YARDS

### UNITS OF AREA

<i>IF YOU HAVE</i>	<i>MULTIPLY BY</i>	<i>TO OBTAIN</i>
SQUARE CENTIMETERS	0.1550	SQUARE INCHES
SQUARE INCHES	6.4516	SQUARE CENTIMETERS
SQUARE FEET	0.0929	SQUARE METERS
SQUARE YARDS	0.8361	SQUARE METERS
SQUARE METERS	10.7639	SQUARE FEET
SQUARE METERS	1.1960	SQUARE YARDS
SQUARE METERS	1.0000	CENTARES
SQUARE METERS	0.0002	ACRES
SQUARE METERS	0.0001	HECTARES
ACRES	4046.8564	SQUARE METERS
ACRES	0.4047	HECTARES
HECTARES	10000.0000	SQUARE METERS
HECTARES	2.4711	ACRES

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